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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/454,223DATE: 12/27/1999  
TIME: 12:42:18

Input Set: I454223.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

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1 <110> APPLICANT: Kornbluth, Richard S  
2 <120> TITLE OF INVENTION: Multimeric forms of CD40L and other TNF family members  
3 <130> FILE REFERENCE: TNFSF-collectin fusion proteins  
4 <140> CURRENT APPLICATION NUMBER: US/09/454,223  
5 <141> CURRENT FILING DATE: 1999-12-09  
6 <160> NUMBER OF SEQ ID NOS: 6  
7 <170> SOFTWARE: PatentIn Ver. 2.1  
8 <210> SEQ ID NO 1  
9 <211> LENGTH: 1552  
10 <212> TYPE: DNA  
11 <213> ORGANISM: Artificial Sequence  
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13 <221> NAME/KEY: 5'UTR  
14 <222> LOCATION: (7)..(31)  
15 <220> FEATURE:  
16 <221> NAME/KEY: misc\_feature  
17 <222> LOCATION: (88)..(799)  
18 <223> OTHER INFORMATION: Mature murine surfactant protein D including hub  
19 region, collagenous portion, and neck, but  
20 excluding carbohydrate recognition domain (CRD)  
21 <220> FEATURE:  
22 <221> NAME/KEY: misc\_feature  
23 <222> LOCATION: (801)..(1546)  
24 <223> OTHER INFORMATION: Human CD40 ligand extracellular region, including  
25 stalk.  
26 <220> FEATURE:  
27 <221> NAME/KEY: sig\_peptide  
28 <222> LOCATION: (32)..(88)  
29 <223> OTHER INFORMATION: Signal peptide from murine surfactant protein D  
30 <220> FEATURE:  
31 <221> NAME/KEY: CDS  
32 <222> LOCATION: (32)..(1444)  
33 <220> FEATURE:  
34 <223> OTHER INFORMATION: Description of Artificial Sequence: Murine  
35 surfactant protein D (without the CRD) fused to  
36 the extracellular portion of human CD40L  
37 <300> PUBLICATION INFORMATION:  
38 <301> AUTHORS: Spriggs, Melanie K.  
39 Armitage, Richard J.  
40 Strockbine, L  
41 Clifford, K N.  
42 Macduff, B M.  
43 Sato, T A.  
44 Maliszewski, C R.

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45 Fanslow, William C.  
 46 <302> TITLE: Recombinant human CD40 ligand stimulates B cell  
 47 proliferation and immunoglobulin E secretion.  
 48 <303> JOURNAL: J. Exp. Med.  
 49 <304> VOLUME: 176  
 50 <305> ISSUE: 6  
 51 <306> PAGES: 1543-1550  
 52 <307> DATE: 1992  
 53 <313> RELEVANT RESIDUES: 801 TO 1600  
 54 <300> PUBLICATION INFORMATION:  
 55 <301> AUTHORS: Motwani, M  
 56 <302> TITLE: Mouse surfactant protein-D. cDNA cloning,  
 57 <303> JOURNAL: J. Immunol.  
 58 <304> VOLUME: 155  
 59 <305> ISSUE: 12  
 60 <306> PAGES: 5671-5677  
 61 <307> DATE: 1995  
 62 <313> RELEVANT RESIDUES: 32 TO 800  
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 70 agc ctc tcg cag aga tca gta ccc aac acc tgc acc cta gtc atg tgt 148  
 71 Ser Leu Ser Gln Arg Ser Val Pro Asn Thr Cys Thr Leu Val Met Cys  
 72 25 30 35  
 73 agc cca aca gag aat ggc ctg cct ggt cgt gat gga cgg gat ggg aga 196  
 74 Ser Pro Thr Glu Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Arg  
 75 40 45 50 55  
 76 gaa ggt cca cgg ggt gag aag ggt gat cca ggt ttg cca gga cct atg 244  
 77 Glu Gly Pro Arg Gly Glu Lys Gly Asp Pro Gly Leu Pro Gly Pro Met  
 78 60 65 70  
 79 ggg ctc tca ggg ttg cag ggc cct aca ggt cca gtt gga ccc aaa gga 292  
 80 Gly Leu Ser Gly Leu Gln Gly Pro Thr Gly Pro Val Gly Pro Lys Gly  
 81 75 80 85  
 82 gag aat ggc tct gct ggc gaa cct gga cca aag gga gaa cgt gga cta 340  
 83 Glu Asn Gly Ser Ala Gly Glu Pro Gly Pro Lys Gly Glu Arg Gly Leu  
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 85 agt gga cct cca gga ctt cca ggt att cct ggt cca gct ggg aaa gaa 388  
 86 Ser Gly Pro Pro Gly Leu Pro Gly Ile Pro Gly Pro Ala Gly Lys Glu  
 87 105 110 115  
 88 ggt ccc tct ggg aag cag ggg aac ata gga cct caa ggc aaa cca ggt 436  
 89 Gly Pro Ser Gly Lys Gln Gly Asn Ile Gly Pro Gln Gly Lys Pro Gly  
 90 120 125 130 135  
 91 cct aaa gga gag gct ggg ccc aaa gga gaa gta ggt gct cct ggc atg 484  
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 93 140 145 150  
 94 caa gga tct aca ggg gca aaa ggc tcc aca ggc ccc aag gga gaa aga 532

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 98 Gly Ala Pro Gly Val Gln Gly Ala Pro Gly Asn Ala Gly Ala Ala Gly  
 99 170 175 180  
 100 cct gcc gga cct gcc ggt cca cag gga gct cca ggt tcc agg ggg ccc 628  
 101 Pro Ala Gly Pro Ala Gly Pro Gln Gly Ala Pro Gly Ser Arg Gly Pro  
 102 185 190 195  
 103 cca gga ctc aag ggg gac aga ggt gtt cct gga gac aga gga atc aaa 676  
 104 Pro Gly Leu Lys Gly Asp Arg Gly Val Pro Gly Asp Arg Gly Ile Lys  
 105 200 205 210 215  
 106 ggt gaa agc ggg ctt cca gac agt gct gct ctg agg cag cag atg gag 724  
 107 Gly Glu Ser Gly Leu Pro Asp Ser Ala Ala Leu Arg Gln Gln Met Glu  
 108 220 225 230  
 109 gcc tta aaa gga aaa cta cag cgt cta gag gtt gcc ttc tcc cac tat 772  
 110 Ala Leu Lys Gly Lys Leu Gln Arg Leu Glu Val Ala Phe Ser His Tyr  
 111 235 240 245  
 112 cag aaa gct gca ttg ttc cct gat ggc cat aga agg ttg gac aag ata 820  
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 115 gaa gat gaa agg aat ctt cat gaa gat ttt gta ttc atg aaa acg ata 868  
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 117 265 270 275  
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 120 280 285 290 295  
 121 gag att aaa agc cag ttt gaa ggc ttt gtg aag gat ata atg tta aac 964  
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 131 Thr Thr Ser Val Leu Gln Trp Ala Glu Lys Gly Tyr Tyr Thr Met Ser  
 132 345 350 355  
 133 aac aac ttg gta acc ctg gaa aat ggg aaa cag ctg acc gtt aaa aga 1156  
 134 Asn Asn Leu Val Thr Leu Glu Asn Gly Lys Gln Leu Thr Val Lys Arg  
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 137 Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln Val Thr Phe Cys Ser Asn Arg  
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 143 Pro Gly Arg Phe Glu Arg Ile Leu Leu Arg Ala Ala Asn Thr His Ser  
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 150 440 445 450 455  
 151 caa gtg agc cat ggc act ggc ttc acg tcc ttt ggc tta ctc aaa ctc 1444  
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 163 the extracellular portion of human CD40L  
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 169 35 40 45  
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 171 50 55 60  
 172 Pro Gly Leu Pro Gly Pro Met Gly Leu Ser Gly Leu Gln Gly Pro Thr  
 173 65 70 75 80  
 174 Gly Pro Val Gly Pro Lys Gly Glu Asn Gly Ser Ala Gly Glu Pro Gly  
 175 85 90 95  
 176 Pro Lys Gly Glu Arg Gly Leu Ser Gly Pro Pro Gly Leu Pro Gly Ile  
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 185 165 170 175  
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 191 210 215 220  
 192 Ala Leu Arg Gln Gln Met Glu Ala Leu Lys Gly Lys Leu Gln Arg Leu  
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197 His Arg Arg Leu Asp Lys Ile Glu Asp Glu Arg Asn Leu His Glu Asp  
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200 275 280 285  
201 Leu Ser Leu Leu Asn Cys Glu Glu Ile Lys Ser Gln Phe Glu Gly Phe  
202 290 295 300  
203 Val Lys Asp Ile Met Leu Asn Lys Glu Glu Thr Lys Lys Glu Asn Ser  
204 305 310 315 320  
205 Phe Glu Met Gln Lys Gly Asp Gln Asn Pro Gln Ile Ala Ala His Val  
206 325 330 335  
207 Ile Ser Glu Ala Ser Ser Lys Thr Thr Ser Val Leu Gln Trp Ala Glu  
208 340 345 350  
209 Lys Gly Tyr Tyr Thr Met Ser Asn Asn Leu Val Thr Leu Glu Asn Gly  
210 355 360 365  
211 Lys Gln Leu Thr Val Lys Arg Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln  
212 370 375 380  
213 Val Thr Phe Cys Ser Asn Arg Glu Ala Ser Ser Gln Ala Pro Phe Ile  
214 385 390 395 400  
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216 405 410 415  
217 Arg Ala Ala Asn Thr His Ser Ser Ala Lys Pro Cys Gly Gln Gln Ser  
218 420 425 430  
219 Ile His Leu Gly Gly Val Phe Glu Leu Gln Pro Gly Ala Ser Val Phe  
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228 <213> ORGANISM: Artificial Sequence  
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230 <221> NAME/KEY: 5'UTR  
231 <222> LOCATION: (7)..(31)  
232 <223> OTHER INFORMATION: 5' UTR taken from rat sequence for surfactant  
233 protein D  
234 <220> FEATURE:  
235 <221> NAME/KEY: sig\_peptide  
236 <222> LOCATION: (32)..(88)  
237 <223> OTHER INFORMATION: Signal peptide from murine surfactant protein D  
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241 <220> FEATURE:  
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243 <222> LOCATION: (32)..(800)  
244 <223> OTHER INFORMATION: Murine surfactant protein D including hub region,

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**VERIFICATION SUMMARY  
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Line ? Error/Warning

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